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	based a number	tached cha on the eval er of prev dual RR li- llowing rea	luation o lous repo nes of th	f all ava rts * whi e country	ilable rec ch deal ir (see Anne	ords, su detail ax 1). (with the lenerally,	

Net of the hailroad Lines

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Historical and political factors: The structure of the Yugoslav railway system was shaped by the historical development of this state founded after world War I and by the gebgraphical conditions of the country.

In those districts of the country formerly part of imperial Austria the construction of RM lines was designed to suit only Austro-Hungarian interests, and so these lines had little or no cornection with SK lines in Serbia, Macedonie, and Montenetro, which at that time, already enjoyed indepen-cance. One of the main tasks of the newly established state was therefore to integrate the railway nots of the various provinces forming the new state. This was a slow process, for only 1,100 km of new RE lines were constructed from 1918 The prolonged occupation of the country (from 1941 to 1944) by Germany, Italy, and Balgaria interrupted this integration of the railway system, although much was done in the field of railroad construction work during that period by the various occupation powers. After the German surrender, when the independence of the country was restored within her former borders, which were extended to include former Italian and Austrian territory, the Tito regime resumed the work of unifying the Yugoslav railway net. Considerable results were achieved through enormous effort. From 1946 to 1948, not only were the considerable war damages repaired but 1,000 km of new RR lines were also built, an effort which roughly corresponds to the 22-year achievement of prewar Yagoslavia. Although this result, which was pushed for propaganda reasons, was frequently reached at the expense of the quality of the work performed, it is nevertheless remarkable.

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b. Seographical conditions: Apart from political and historical factors, it is chiefly the peographical condition that influenced the structure of the Yuposlav network of railways, forcing the lines in certain directions, and simultaneously ligiting railroad construction projects. The open terrain of northern Yujoslavia favors east-west transit traffic and permits the construction of numerous local ka lines. The zone of river basins in eastern Scrbia and Jacedonia (Jorava and vardar valleys) offered facilities for the construction of kk connections to the east (bullmarta and Turksy) and south (preces) Thus, the most important in connection of the country, that from ZA MEB (A MA) via MEOGRAD (LELGLADE), MAPOVO, KISH to SOFIA, and GO SIMMTINOPHI from LAPOVO via NISH or KHALJEVO - . SEPOLJE to SALCNEA, follows a course suggested by natural terrain features. The mountainous center of the country between these open river valleys, the "Dinaric Region", made the construction of a continuous rallway net very difficult. This region is therefore poor in had 11 es. The few existing lines are narrow- auge lines (760 mm) of very listed load capacity, frequently blocked in winter or after bad weather. They do not represent adequate feeder lines to and from the Adriatic sea ports. This barrier separation see and inland traffic constitutes the basic weakness of the Yugoslav traffic system. The efforts of the Yugoslav Government to evercome this weakness will be dealt with in cetail in section 2 of this study ("Construction Plans").

c. Betwork of railways: Prior to world war 11, the Yugoslav railway net amounted to 9,650 km, two thirds of which was standard-gauge, the remainder narrow-gauge lines of 760 mm, and so let ites also of 600 mm (in the area of ShOP_JE). The bulk of the in lines was single tracked. As to its type of construction and its maintenance it only partly corresponded to Central buropean standards. The subgrade was lighter, the rails used were not so heavy, and automatic dafety and simal installations were available only on trunk lines. The utilization of the air brake for freight trains was not made compulsory on trunk lines before 1948. The capacities of the his stations and lines are therefore inferior, for example, to that of corresponding Jerman lines. For this reason the Jermans, during world War II, devoted more attention to the improvement of existing lines than to the construction of new lines in accorcance with their military and economic interests. Furing the German retreat in 1944/45 the M. installations suffered major data es Nearly 50 percent of the R lines and 68 percent of the bridges with spans over 30 m were destroyed or damaged. By a ruthless employment of Pas and of the civilian population. above all the youth, most of the war damage was repaired and new Am lines wereconstructed, being converted from narrow to standard gauge.

Late in 1948 Yu eslavia had a trackage of 10,690 km, including the newly acquired Austrian and Italian districts (see Amex 1). As pointed out in para 11 b., the reilway net has its greatest density in the open notth and southeast, the MARBURG or LUGALJANA-LAGAB-BARGE-LAFOVO-NISH or KRALJSVO-SKOPLJE transit ling being the backbone of the railway system. This line has a great carrying capacity because large sections of it are double tracked (LARBURG or LUGLJANA - ZAOREB, NOVSKA-BALGRADE, VELIKA PLANA-LEPCVO sections); others, such as those between ZAOREB

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and Novska, Mill Mark and Villia 16 ANA, LAROVO and Skopie, Villes and the Greek border, may be considered as such due to the existence of two simple-track lines running separately. The northern part of the country is rich in single-track local lat lines also establishing connections with Hungary and northern hulania. The connection to bulgaria is established by only one single-tracked but well equipped line running from RISH to SCHIA. Two single-track RR lines, which branch out at VILLS, leading to SALONIKI via GEVALLIJ and FLORIA. Constitute the connections with Greece. There is no RR connection with Albania. Construction plans in this direction have probably been shelved due to the present political situation. In the "Dinaric Region" leading to the Adriatic Sea, only two Ra lines are of importance, viz.:

- (1) The single-track standard-page line connecting the area of Zh REB (ACMar) with the important Adriatic ports of SIBLERK and SPERT (SPALATO), which in 1948 was considerably improved by the construction of the standard-page BINAG-KRIN line (so-called "One wine") (see previous reports **).
- (2) The sin lettrack line DOSOJ-SANAJEVO- OSTAD to DUBROVNIK (NATUSA) with a branch line leading to the nort of PLOCA in the west. This formerly narrow-range line (760 mm), which originated in SLOV. PROD, was partly converted into a standard cause line in 1947, (section from DOBOJ to SANAJEVO) and simultaneously extended in the north beyond DOBOJ as far as SA AC, which now serves as its starting point (another report ***). Its southern balf, still narrow-range track, is still furthermrestricted in its importance by the existence of a rack railway section between BUADINA and KONJEC, south of SANAJEVO, where this line has to overcome a steep grade about 15 km long.

All the major Yugoslav ha lines, as far as reliable records were available, are dealt with in cetail in other reports.*2

2. Construction Plans

After repair of major war damage, the Tito Government, with all the clan of authoritarian regimes, began improving the existent railway net through a large-scale construction program or conversion of narrow-caute lines to standard caute, paying little recard to costs and economy. The work was pushed by ruthless mass employment of civilian labor origades, mostly juveniles, political internees, and Plas. Since the work performed was very often of poor quality thorough overhauling of some of the newly constructed lines was necessary shortly after they were opened. The construction program is based on military and economic considerations, the chief aims being the achievement of a greater net density in the "Linaric Legion", improvement of the ha connections to the Adriatic Sea, the creation of strategic lines along the porders, and the removal of operational bottlenecks. Since the end of the war, the following lines have been constructed, converted to standard mause, or are still under construction .

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a. SALAC - SARAJEVO line (length 240 km): Partly newly constructed as a standard-laure line, hartly converted from marrow to standard aute. The coal is the construction of a line to the Adriette Sea surpaising the capacity of the previously existent lines. The eventual extension to the Adriette Sea is proposed to the lines. The eventual extension to the Adriette Sea is proposed to the lines. The eventual extension to the Adriette Sea is proposed to the lines. 25X1 module line deriving an interconnection of two existent lines. c. BiHAC - KRIN line (length, 90 km): Single-track standard-auge line, supplementing what was firmerly the only standard-auge line, supplementing the Adriatic ports of SIRBNEK and SPLIT. 25X1 d. NIKSIC - TITOGRAD (PCD DORICA) line (length, 40 km): Newly constructed as a single-track narrow—auge line (760 km) with a readled permitting the laying of a standard-auge track, interconnection two previously existent narrow—auge track, also of 760 km auge. It is the only line in this area (the force of our narrow—auge lines, also of 760 km auge. It is thended extension into Albania will hardly be carried out in the foresecable future due to the rising political tension between the two standard auge probably of pre-dominantly allitary importance aince it was built by army units, for marrow—auge line (770 km) to standard auge probably of pre-dominantly allitary importance aince it was built by army units, as far as SMLUS, Albania, a goal which had to be temporarily abundoned because of political and military importance must not be cause of political and military importance must not be caused of political and military importance must not		
25X1 tent lines and opening up the MANOVICI industrial region. c. BAHAC - KRIN line (length, 112 km): Single-track standard-auge line, supplementing what was formerly the only standard-game connection to the Adriatic Sta. it established a rail-roac connection to the Adriatic Sta. it established a rail-roac connection to the Adriatic ports of SIBENIK and SPLIT. It is of equ.1 military and economic importance 25X1 d. MINSIC - TITOGRAD (PCD DORICA) line (length, 40 km): Newly constructed as a simple-track narrow—auge line (760 km) with a roadbed permitting the laying of a standard—rauge track, interconnecting two previously existent narrow—auge lines, also of 760 km auge. It is the only line in this area (the former conteners) and therefore of economic, political, and military importance. The intended extension into Albania will hardly be carried out in the foresceable future due to the rising political tension between the two states 25X1 Example - Advidace line (length, 54 km): Conversion of the narrow—auge line (760 km) to standard auge probably of predominantly military importance since it was built by army units, commanded the conversion of the narrow—auge line (1760 km) to standard auge probably of predominantly military importance since it was built by army units, f. Example line (1760 km) to standard auge probably of predominantly military importance since it was built by army units, f. Example line (1760 km) to standard auge probably constructed simile-track standard—auge line, branching off from the PECs accounted in protance inasanch as it open up the import in TRAPEC mining cistrict, but its political and military importance must not be exampled in the standard—auge line (1860 km); Rewly constructed sin lettrack standard—auge line castallishing a valuable cross-connection between the two single track sections of the sain through line from Belighale via Lappovo and NISH or nallevo—auge, running slong the castarm coroor of Albinia, therefore of predominant strategic importance. Possib	25X1	ted as a standard-gauge line, partly converted from narrow to standard au e. The goal is the construction of a line to the adriatic Sea surpassing the capacity of the previously existent lines. Its eventual extension to the Adriatic Sea is pro-
25X1 Sauge connection to the Adristic Sea. It established a rail- road connection between the rain producing basins of VolvODINA, POSATIMA, MODEMAVINA and the Adristic ports of SIBENER and SPLIT. It is of equal military and economic importance 25X1 d. MIRSIG - TITOGRAD (PODDORICA) line (length, 40 km): Newly constructed as a single-track narrow-make line (760 mm) with a roadbed permitting the laying of a standard-gauge track, interconnecting two previously existent narrow-make lines, also of 760 mm auge. It is the only line in this area (the former ontengro) and therefore of economic, political, and military importance. Its intended extension into Albania will hardly be carried out in the foresecable future due to the rising political tension	25X1	tent lines and opening up the HANOVICI
d. NIRSIC - TITOGRAD (PCD JORICA) line (length, 40 km): Newly constructed as a simple-track narrow-name line (760 km) with a roadbed permitting the laying of a standard-gauge track, interconnecting two previously existent narrow-name lines, also of 760 km auge. It is the only line in this area (the former conteners) and therefore of economic, political, and military importance. Its intended extension into Albania will hardly be carried out in the foresecable future due to the rising political tension 6. SABAC - ACVILLACA line (length, 54 km): Conversion of the narrow-range line (760 km) to standard au e; probably of predominantly military lamortance since it was built by army units, 7. TYPHIA - PRIZERS line (length, 58 km): Newly constructed simple-track standard-range line, branching off from the PECK augustic line in the direction of Albania, following the "white brave" valley to the south. Ord-hally, it was to run as far as NULUS, Albania, a goal which had to be temporarily abandoned because of political reasons. This publect is of economic importance inasmuch as it opens up the import in TRAPCA mining district, but its political and military importance must not be coverlowed 8. NURSE LICA - PRESTINA line (length, 68 km): Newly constructed sin-le-track standard-range line establishing a valuable cross-connection between the two single track sections of the main through line from Behgrale via Lapovo and NISH or managevo-sion of a previously narrow-bar a (600 km) line to standard gauge, running slong the castern border of Albania, therefore of predominant stratesic Laportance. Possibly the conversion of the resaining narrow-range section as far as GRILL will be effec-		gauge connection to the Adriatic Sea. It established a rail- road connection between the rain producing basins of VOJVODINA, POSAVINA, PODMAVINA and the Adriatic ports of SIBANIK and SPLIT.
constructed as a single-track harrow-sauge line (760 ma) with a roadbed permitting the laying of a standard-gauge track, interconnecting two previously existent narrow-sauge lines, also of 760 mm sauge. It is the only line in this area (the former contenegro) and therefore of economic, political, and military importance. Its intended extension into Albania will hardly be carried out in the foresecable future due to the rising political tension between the two states 6. SABAC - ACVILLACA line (length, 54 km): Conversion of the narrow-gauge line (760 mm) to standard and e; probably of predominantly military importance since it was built by army units, 7. ETOBLIA - PRIZERS line (length, 56 km): Newly constructed simple-track standard-maye line, branching off from the PEC* according to the south. Originally, it was to run as fer as NUMBS, Albania, a goal which had to be temporarily abundance because of political reasons. This publect is of economic importance inasmuch as it opens up the import not ThePCA mining district, but its political and military importance must not be overlooked 6. EUESU LICA - PRISTINA line (length, 68 km): Newly constructed sin le-track standard-maye line establishing a valuable cross-connection between the two single track sections of the main through line from Ball-Falle via Lapovo and NISH or mining fauge, running slong the castern border of Albania, therefore of predominant strateste importance. Possibly the conversion of the resaming narrow-mayer section as far as CEMIT will be effec-	25X1	
25X1 f. ETCHIJA - PRIZHER line (length, 56 km): Newly constructed single-track standard-range line, branching off from the PEC* ACSOVO line in the direction of Albania, following the "Linite brave" valley to the south. Originally, it was to run as fer as MUNUS, Albania, a goal which had to be temporarily abandoned because of political reasons. This project is of economic importance inasmuch as it opens up the import at TRAPCA mining district, but its political and military importance must not be overlooked E. KUNSU LICA - PRESTIRA line (length, 68 km): Newly constructed sin le-track standard-range line establishing a valuable cross-connection between the two single track sections of the main through line from BELICALE via Lapovo and NISH or ALALJEVO- to SKOPLIE h. SKOPLIE - Throve - SOSTIVAR line (length, 60 km): Conversion of a previously narrow-range (600 cm) line to standard gauge, running along the eastern border of Albania, therefore of predominant strategic importance. Possibly the conversion of the resalating narrow-range section as far as CHRIT will be effec-		constructed as a single-track narrow-pauge line (760 mm) with a roadbed permitting the laying of a standard-gauge track, interconnecting two previously existent narrow-pauge lines, also of 760 mm pauge. It is the only line in this area (the former lontenegro) and therefore of economic, political, and military importance. Its intended extension into Albania will hardly be carried out in the foreseeable future due to the rising
25X1 to SKOPLJE h. SKOPLJE - Throvo - Bostival via Lapovo and NISH or Alalyvo- sion of a previously narrow-sange (600 an) line to standard procedure, running along the eastern boroor of Albania, therefore of predominant strategic importance. Possibly the conversion of the resaining narrow-sange for as CEMID will be effec-	25X1	narrow-sauge line (760 mm) to standard au e: probably of pre-
25X1 to SKOPLJE h. SKOPLJE - THIOVO - BOSTIVAL line (length, 60 km): Conversion of a previously narrow-range (600 dm) line to standard gauge, running along the eastern border of Albania, therefore of predominant strategic importance. Possibly the conversion of the regaining narrow-range section as far as CHHID will be effected.	25X1	according in the direction of Albania, following the "white brave" valley to the south. Originally, it was to run as far as EUAUS, Albania, a goal which had to be temporarily abandoned because of political reasons. This project is of economic importance inasmuch as it opens up the important TRAPCA mining district, but its political and military importance must not be
h. SKOPLIK - TATOVO - GOSTIVAN line (length, 60 km): Conversion of a previously narrow-rance (600 km) line to standard gauge, running slong the eastern border of albania, therefore of predominant strategic importance. Possibly the conversion of the recalning narrow-rance section as far as CHAID will be effec-	25X1	cross-connection between the two single track sections of the main through line from Belighale via Lapovo and NISH or Mallevo-
25X1 ted later on		gauge, running along the eastern border of Albania, therefore of predominant strategic importance. Possibly the conversion of
	25X1	ted later on

25X1

i. BUMAROVO - STIP line (length, 70 km): Newly constructed single-track standard-gau e line connection the eastern branch of the MISH-S. OPLJE truck line with the spur line leading to the La serien frontier. Probably constructed with the view of easing the traffic burden of the SKOPLJE AM luncture it is also of mulitary importance

25X1

j. <u>KUCEVO - BRODICE line (length, 16 km)</u>: Continuation of a single-track standard-wauge line in the direction of the humanian border; of predominantly economic importance because it opens up the extensive pine woods near KULLC but also of strategic importance

25X1

k. BELIMADE - OVCA - PA CEVACHI RIT line (length, 35 km): hewly constructed sin le-track standard- auge spur line into a rich acricultural district supplying BELGRADE (see another

25X1

1. SCZAIA - DUTOLJE loop (len th, 8 km): Newly constructed sin le-track standard- au e line made necessary by the fixing of the Italian - Yuzoslav border; it is to interconnect two lines cut by the new boundaries (

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Reconstruction of the PELS ALER has junction: in its present state, the BELG ADE RR junction is a bottleneck for the entire rail net thr unh-traffic of the norther part of the country. Hemsed in by the hills between the Lanube and Save livers, it does not offer any possibilities for makeshift is provements. Only by a lar e-scale reconstruction project separatin local from throu h-traffic will it be possible to ell inste the present difficulties. work on this important project, which will bring about a basic reor anization of rail operations in this area, cas started within the framework of the five-year plan. Special freight lines are to reroute bulk through-traffic around the capital, and a new marshalline yard in 4E U.S. O POLJE is to east the train on the B. MALO R. station. Part of the former railway installations in the center of the city will be removed in order to make room for other constructions Three new En bridges (two across the Save giver and one across the sanute giver) in addition to 9 tunnels are scheouled for construction in connection with this project. The southern Save River bridge near OSTRUZETCA, the 700 m tuncel near RiJE.O, and the southwestern rerouting line have been under construction since the summer of 1948. onnex 2 shows the lay-out of the DELGMADE junction after completion of the reconstruction work. The duration of the construction work cannot be foreseen.

- n. SKOPLJE Re junction; also a bothleneck on the main Yugo-slav transit line, is also being improved, although on a much more modest scale than the BELGALE RR station.
- standard-gauge line still under construction. It is of purely economic importance for the opening up of the coal basin of mASA-LABIN on the istrian peninsula. The previously necessary transloading operations by shipping this coalvia FIUE by sea are, to be eliminated by this line.

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In addition to the construction mentioned there are a great nuther of minor projects under way, all designed to raise the economy of the country in the fields of a riculture, industry, and forestry. A large number of other reilroad lines are also scheduled for construction, but these projects are not yet off the drawin board and so need not be dealt with here. The speed of the realization of this railway construction proram is being slower down through the political differences between the Eastern Bloc and TiTo, which led to a suspension of deliveries of rolled products, particularly of rails and girders, from Czechoslovskia and Poland. Since the capacity of the donestic steel industry is still far too low for the requirements of the country, TITO will sooner or later have to burn to the west if he wants to put his large-scale and vital construction projects into practice.

The five-year plan, which will run until 1951, laid down the following targets for the improvement of rail operations:

(1) Construction of RL lines:

standard-gauge: narrow gauge: total:

1,157 km 900 km 2.057 km

(2) hepair of locomotives and rolling stock:

standard-gauge loco.notives: 130 narrow-nauge locomotives: 2,000 passenger cars: 14,500 freight cars:

(5). anufacture of locomotives and RA cars:

2,000 locomotives: 950 passenger cas: 14,560 freicht cers:

The Manufacture and repair of the rolling stock and lecomothwes is being performed in the following Ra shops:

Central RH workshop in MARIBOR RR repair shop in ZRELJANIN RE repair shop in SARAJEVO RA repair shop in NISH III repair shop in S. EDEROVO HR repair shop in SUBOTICA

RE repair shoo in ZACKEE
"14th October" RE Car Factory in KRUSEVAC
"Masenica" RE Car Factory and Ironworks in SELEREVSKA PELAKAA.

As was shown by experience in 1948, the targets mentioned in paras (2) and (3) will not be reached unless the domestic production capacity in this field is supplemented by imports of rolling stock or semi-finished products.

Traffic Performance

a. Only the train density achieved on the Yu oslav railroad trunk lines is up to Central European standards. They are dealt with in other reports st^4 . Due to considerable grades, curves, too short sidings, and the li bt subgrade or the type of rails used, only half trains can operate on many of the local standard-gauge lines. As to the narrow-gauge lines, it is a rule

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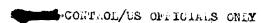
of thumb that the freight of two to three narrow-gauge trains corresponds roughly to a normal standard-gauge train.

b. The volume of rail traffic is increasing. In 1948 154,560,000 passengers were carried, which represents a 40 percent increase over 1946 and a 300 percent increase over the performance in 1938. The freight volume of 1948 surpassed that of 1938 by 79 percent. Letailed figures (in tons) are not available. Although the conscious of these press figures must be qualified since they may have been exaggerated for propaganda reasons, a steady increase of rail traffic cannot be denied. Special measures, such as the introduction of scheduled "route trains" have been taken with a view of reducing the time of circulation of the rolling stock to 4 days as compared with 12 days before the war. But in spite of all these measures the capacity of the Yumaslav railway system is still behind the traffic requirements of the country, which have risen considerably due to the progressing industrialization of Yu ostavia.

Organizational Set-up and hallway Personnel:

a. All the Yugoslav Rh lines are state-operated. The railway system is centrally controlled by the "Lirectorate General, hailways," functioning within the Linistry of Traffic with its seat in ShLORADE. It works through regional arencies (Main RR Directorates and hh Directorates) in discharging its duties in the field of administration, construction work, and operations. The organizational set-up on all levels corresponds roughly to the system in use in western countries.

b. Reliable data on the numerical strength of the railway personnel is not available. It can be generally stated that there is an acute shortage of skilled personnel, particularly in the upper brackets. Only after years of systematic training will it be possible to overcome this shortcoming. In order to bridge the gap, mang German railway officials who lost their jobs in Germany because of the de-Razification law have been hired. They have already made a valuable contribution to the reconstruction and improvement of the Yugoslav railway system. This emergency measure is bein supplemented by a ling-range training program devised with a view of obtaining qualified replacements. The 24 technical railroad schools, including those in LELEMADE, PMCIVO, AUBLJAMA, MISH, ZARKEB, SAMAJEVO, SUBOTICA, POLA, SKOPLJE, BOVI SAL, KASTAV near FIU E, CHYERI ERST near NISH, SIEDEREVO, ZREEJAMIN, and others, were attended by about 5,000 railway employees in 1048. The courses at these schools last for three years and may be expected to turn out skilled personnel for all the various branches of railroad operations and administration. Following the Soviet example, Yugoslavia is employing an increasing number of women for railroad operations. women not only work in administration, but are also employed as lecomptive engineers, firemen, and mechanics in the shops. Also in the Soviet manner, special railroad brimades have been or anized and standards of work performance have been laid down with the corresponding wave system based on personal achievements. That the TITO regime not only values record performance but also the quality of work performed is shown by the great intensity with which the technical training of the railway personmel is bein; pushed.



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5. Ilitary Vulnerability of the hailway Net

a. The Yugoslav railway system in its capacity as a "traffic Bridge" to the Adriatic Sea and thus to the Mediterranean is of considerable importance to the Soviets, who are greatly interested in this region. Many construction projects are certainly due to Soviet initiative, although they are of equal importance to Yugoslavia. Since the present estrangement between the two countries may be of a temporary nature, the possibilities of the Yugoslav railway net for Soviet transit shippings are to be dealt with here, independent of the present situation.

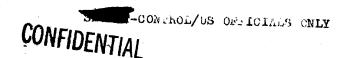
b. The number of Soviet controlled kn lines leading into Yugoslavia is very small. In dreece, which need not be taken into account, because it is not Soviet-controlled, there are only two single-track in lines from the area of SALONÍKI to Yugoslavia. in Bulgaria there is only one single-track standard- auge line from SOFIA in the direction of RISH. The connections with Rumania are limited to several single-track standard-gauge lines of ainor capacity radiating from the northwestern district (TIMISOATA) and running north of the Danube River. More diversified and numerous are the RR connections with Hungary, but here also many of the lines are branch lines often suitable only for half-trains. Almost all of these approach lines, due to the significant character of the regions concerned, possess an unusually large number of bridges which may easily be destroyed and which would be very difficult to reconstruct because of their great height. There are not rerouting facilities at the southern Rumanian and at the Bulgarian and Greek frontiers. rai road lines to the Adriatic Sea (one standard gauge line running from ZACREB via RARLOVAC or BIHAG and KHIE to SPLIT in adcation to the SamaC-DoRoJ-SamaJEVO-DUBROVNIK line, which is half standard and half narrow-cauge, are rich in bridges easily destroyed without any rerouting possibilities. Operations on these lines can therefore be interrupted with long-lasting effect. The military vulnerability of this narrow-sauge line is still further increased by the rack-railway section between BHADINA and KONJIC. A destruction of the few existent cog-wheel locomotives would eliminate this line for a prolonged period. The important throu h-line from ZACREE via FEL GRALE to SKOPLJE is very sensitive to air attack and sabota e because of its many large bridges across the Save, Danube, Morava, and Vardar Rivers. Additional air attacks on the smill existing two bottlenecks of the TELEALE and SaOPLIE junctions, would have a great effect

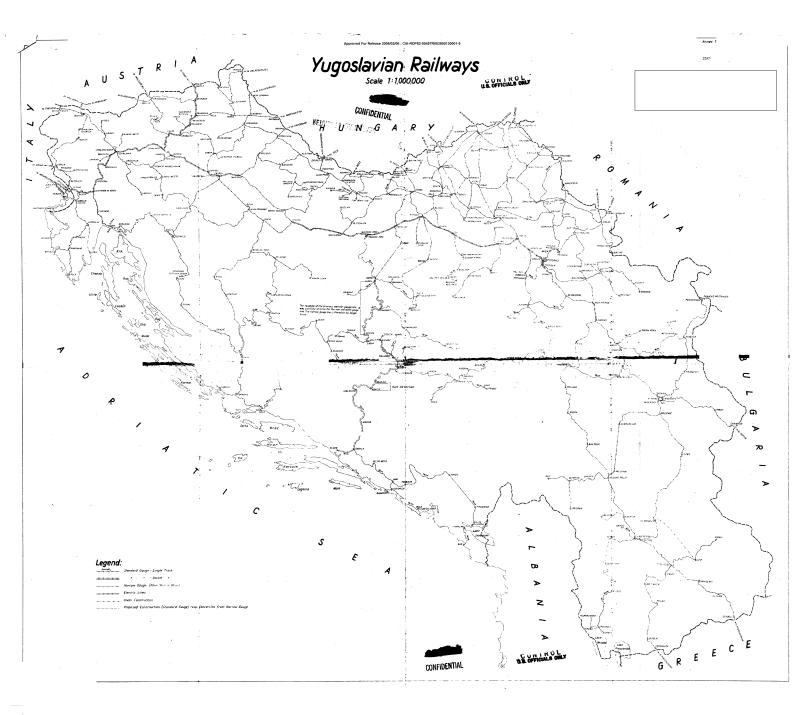
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on the entire railway system.

2 Annexes:

Yugoslavian hailways Reorganization of the BEOGRAD (BELGRADE) RR Junction





Reorganization of the BEOGRAD RR Junction CONFIDENTIAL

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